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Johnk ...

The following chapters cover static and quasi-static electric and magnetic fields, wave reflection and transmission at plane boundaries, the Poynting power theorem, rectangular waveguide mode theory, transmission

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lines, and an
introduction to the
properties of linear
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Electromagnetism is the physics of the electromagnetic field: a field, encompassing all of space, which exerts a force on those particles that possess a property known as electric charge, and is in turn affected by the

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presence and motion of such particles. The term electrodynamics is sometimes...

14. Maxwell's Equations and Electromagnetic Waves I

Electromagnetic waves, making up electromagnetic radiation, can be imagined as self-

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propagating transverse oscillating waves of electric and magnetic fields. This diagram shows a linearly polarized, plane EM-wave propagating from left to right (along X-axis, in left-handed coordinates).

Electromagnetics and
Applications

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Lecture 16. Energy in electric and magnetic fields; principle of virtual work to find electric and magnetic forces; magnetic circuit problems.

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fundamentals and
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applications: static
electric and magnetic
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for time-varying fields;
wave solutions in free
space, dielectrics and
conducting media,
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frequency-domain
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radiation - Wikipedia
In 1887, German
physicist Heinrich
Hertz demonstrated
the reality of
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waves by experimentally generating radio waves in his laboratory, showing that they exhibited the same wave properties as light: standing waves, refraction, diffraction, and polarization.

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5.5.2 Electromagnetic
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Waves I ... It is shown
how to verify that a
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considering them on
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best teacher I ever encountered, and the book IS his class -- everything is explained in detail. I never took a single note, as it is all in the book. If you read the book, you can do the problems. If you do the problems, you will know EM fields.

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fundamentals
underlying the
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engineering students
with a solid grasp of
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fundamentals and
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waves by
emphasizing physical
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The topical organization of the text starts with an initial exposure to transmission lines and transients on high-speed distributed circuits, naturally bridging electrical circuits and electromagnetics.

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Vector differential relations and Maxwell's differential relations in free space are considered along with Maxwell's equations and boundary conditions for material regions at rest, static and quasi-static electric fields, static and quasi-static magnetic fields, the

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Poynting theorem, a mode theory of waveguides, TEM waves on two-conductor transmission lines, the analysis of reflective transmission lines, and radiation from antennas in free space.

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